

FORM PTO-1390 (Modified)
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

L9289.01188

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/93 6616

INTERNATIONAL APPLICATION NO.
PCT/JP00/08799INTERNATIONAL FILING DATE
December 13, 2000PRIORITY DATE CLAIMED
January 19, 2000

TITLE OF INVENTION

RADIO BASE STATION APPARATUS AND RADIO COMMUNICATION METHOD

APPLICANT(S) FOR DO/EO/US

Kazuyuki MIYA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

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NOV 20 2001
Technology Center 2600

Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☐ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

**PCT/IB/308
PCT/RO/101**

U.S. APPLICATION NO. UNKNOWN, SEE 37 CFR	INTERNATIONAL APPLICATION NO. PCT/JP00/08799	ATTORNEY'S DOCKET NUMBER L9289.01188
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24. The following fees are submitted:.				CALCULATIONS PTO USE ONLY	
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :				<div style="text-align: center;"> RECEIVED NOV 20 2001 Technology Center 2600 </div>	
<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO			\$1040.00		
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO			\$890.00		
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO			\$740.00		
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)			\$710.00		
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)			\$100.00		
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).				\$0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	- 20 =	0	x \$18.00	\$0.00	
Independent claims	- 3 =	0	x \$84.00	\$0.00	
Multiple Dependent Claims (check if applicable). <input type="checkbox"/>				\$0.00	
TOTAL OF ABOVE CALCULATIONS =				\$0.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27). The fees indicated above are reduced by 1/2.				\$0.00	
SUBTOTAL =				\$0.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).				\$0.00	
TOTAL NATIONAL FEE =				\$0.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				\$0.00	
TOTAL FEES ENCLOSED =				\$0.00	
				Amount to be refunded:	\$
				charged	\$

- a. ☐ A check in the amount of _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☐ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. _____. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

James E. Ledbetter, Esq.

NAME

28,732

REGISTRATION NUMBER

November 8, 2001

DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Kazuyuki MIYA

Application No.: New PCT National Stage Application based on
PCT/JP00/08799

Filed: September 18, 2001

For: RADIO BASE STATION APPARATUS AND RADIO
COMMUNICATION METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

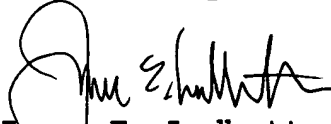
Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449. All of these references were cited in a PCT International Search Report (copy attached) except for the following documents: JP '388 and the Ishii et al., Fukawa et al., Tsutsui et al. and Mestre et al. documents.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106.

Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: November 8, 2001

JEL/spp

ATTORNEY DOCKET NO. L9289.01188

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

L9289.01188

SERIAL NO.

New PCT Nat. Stage
Application

APPLICANT

Kazuyuki MIYA

FILING DATE

September 18, 2001

GROUP

Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	1 1 3 3 1 1 2 5	11/1999	JP			Abstract	
	1 0 0 1 3 2 6 2	01/1998	JP			Abstract	
	0 7 0 1 5 3 8 1	01/1995	JP			Abstract	
	0 5 2 0 6 9 0 7	08/1993	JP			Abstract	
	1 1 1 6 8 4 0 8	06/1999	JP			Abstract	
	1 0 1 9 0 4 9 5	07/1998	JP			Abstract	
	1 1 2 9 8 3 8 8	10/1999	JP			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report dated March 13, 2001.

N. ISHII, et al.; "CDMA Multiuser Time-Space Interference Cancellation System", NEC C&C Media Research Laboratory, B-5-126, pg. 490, 1998.

K. FUKAWA, et al.; "Combination of MMSE Adaptive Array with Nonlinear Interference Canceller and its Performance", NTT Mobile Communications Network Inc., B-406, pg. 407, 1996.

M. TSUTSUI, et al.; "Interference canceller with array antenna and partial canceller for high rate users in DS-CDMA systems", Technical Report of IEICE. CS98-27, RCS98-27(05-1998), pp. 19-23, with English abstract.

X. MESTRE, et al.; "Uplink Beamforming for the FDD Mode of Utra", VTC '99-s.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.